

10/019283

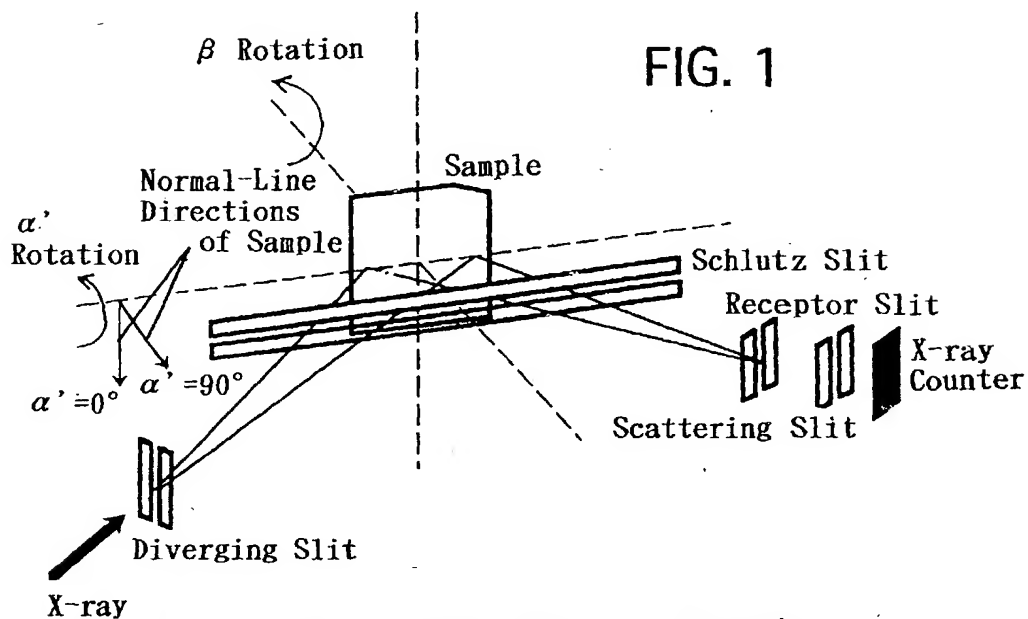
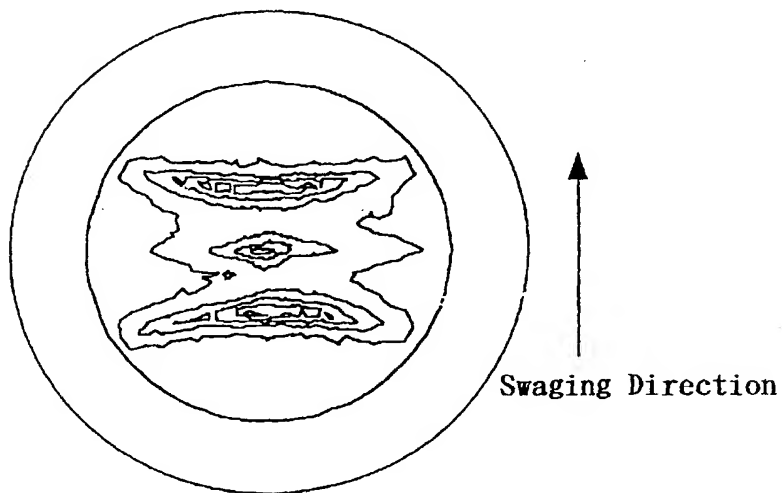


FIG. 1

Measurement of Polar Figure by Schlutz's Reflection Method

FIG. 3

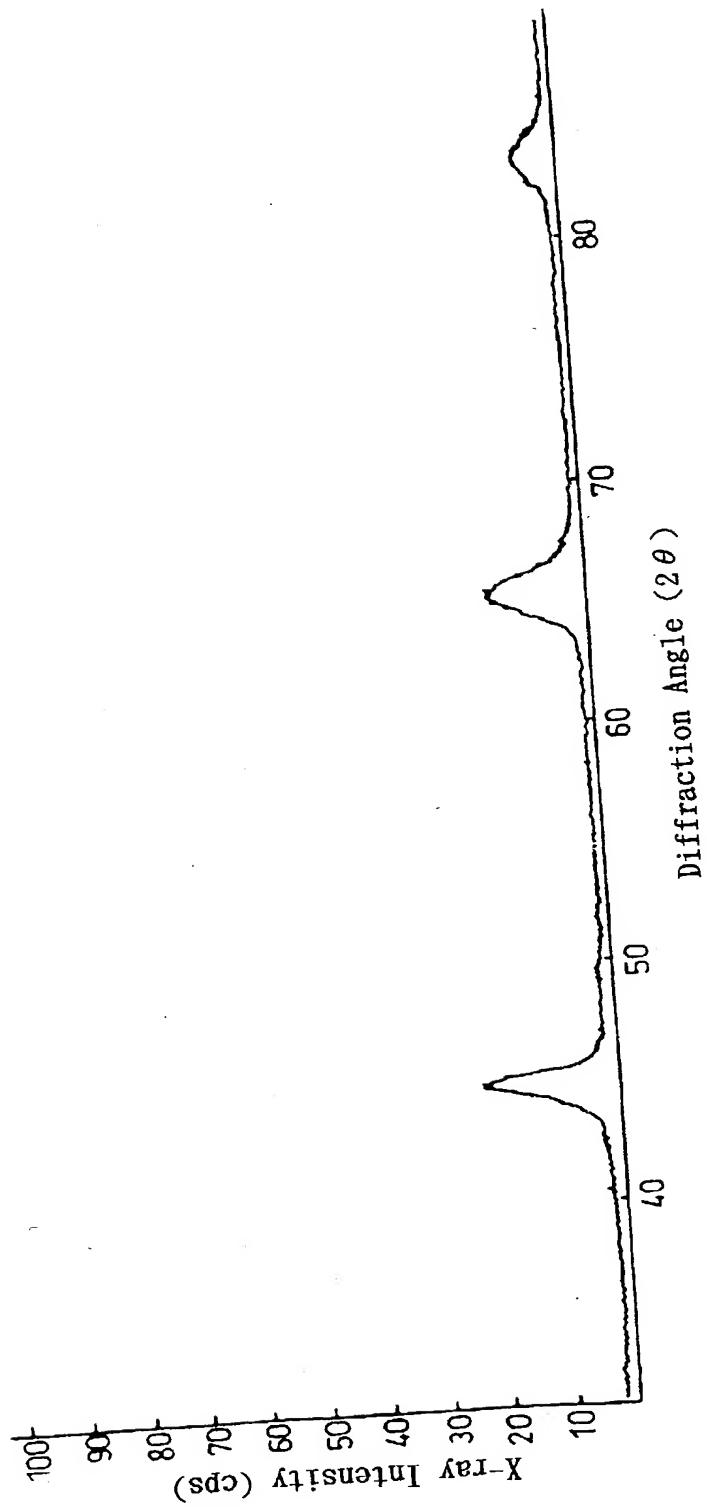


1 Scale: 1,000cps

(110) Polar Figure Obtained in Sample No. 1

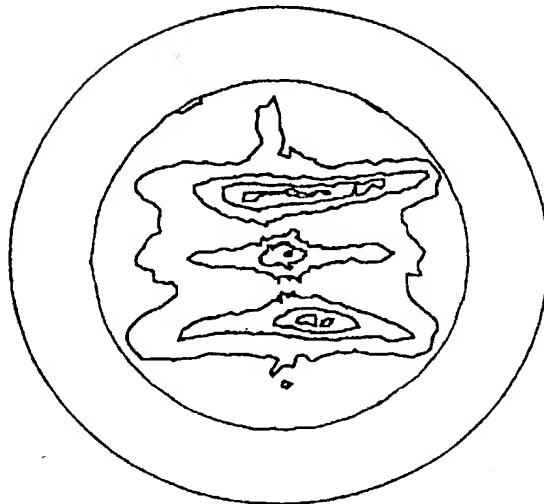
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FIG. 2



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FIG. 4

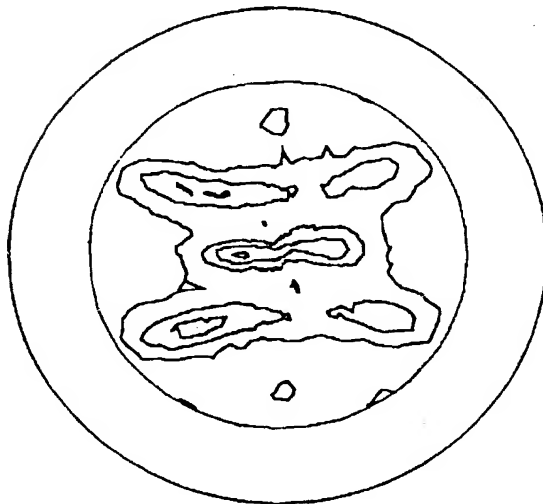


Working  
Direction

1 Scale:1,000cps

(110) Polar Figure Obtained in Sample No. 4

FIG. 5



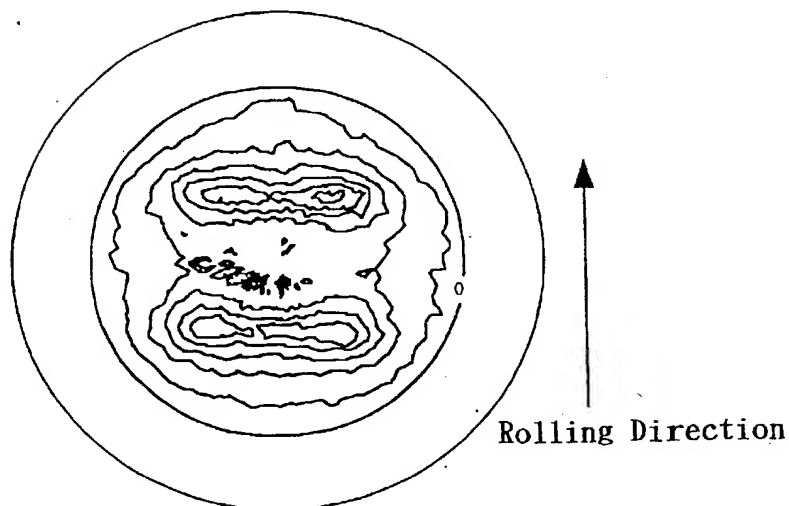
Working  
Direction

1 Scale:1,000cps

(110) Polar Figure Obtained in Sample No. 5

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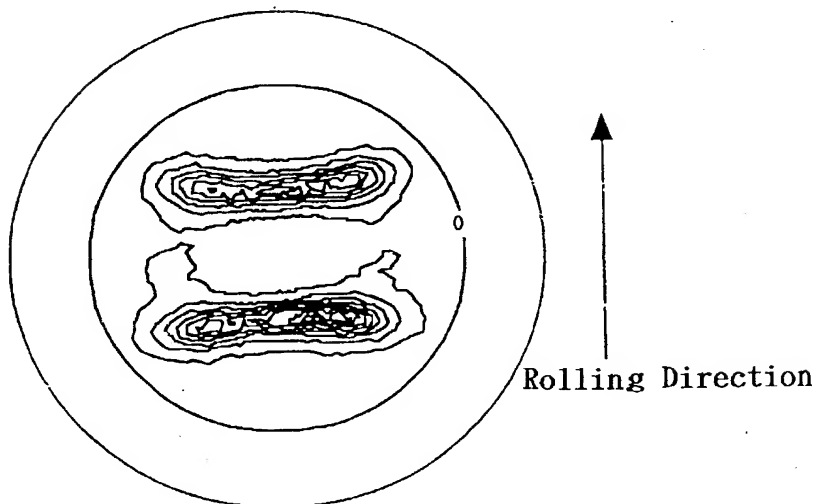
FIG. 6



1 Scale:500cps

(110) Polar Figure Obtained in Sample No. 2

FIG. 7

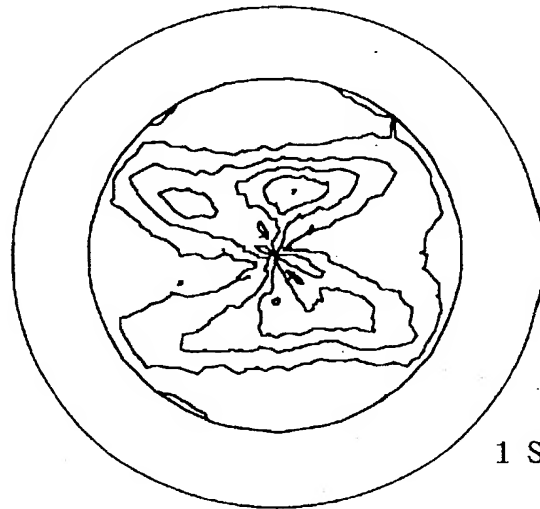


1 Scale:1,000cps

(110) Polar Figure Obtained in Sample No. 3

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FIG. 8



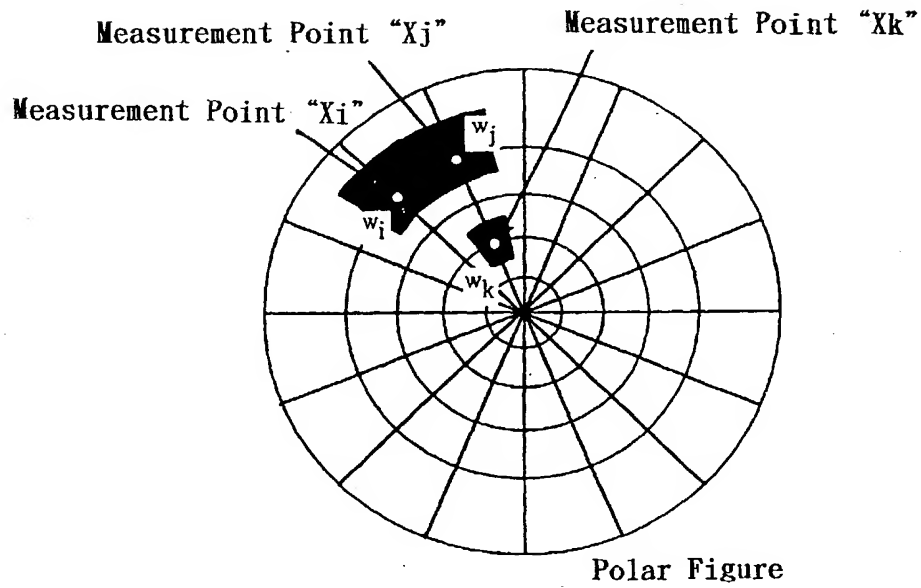
1 Scale:500cps

Swaging Direction

(110) Polar Figure Obtained in Comparative Sample

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FIG. 9



Definition of "w" Constituting Weighting  
Function "W" (Only 3 examples are shown.)

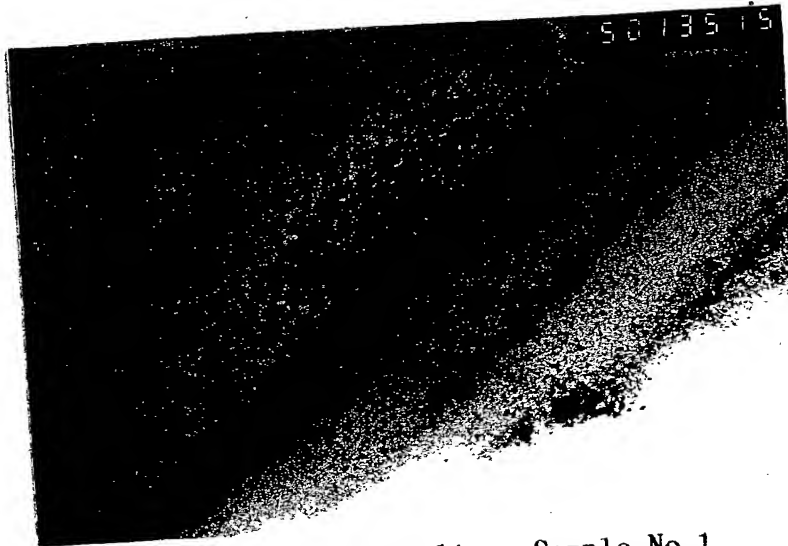
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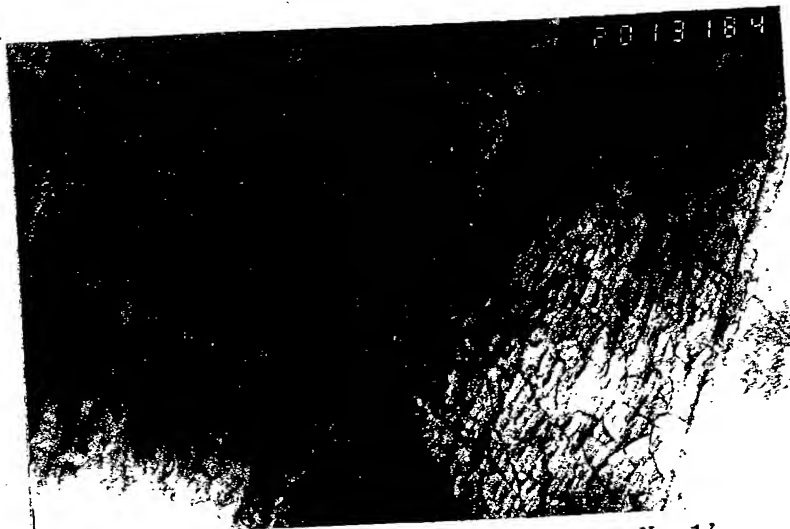
DOCKET # 21822502 SHEET 7 OF 13

FIG. 10



TEM Observation Result on Sample No. 1  
(Bright Field Image)

FIG. 11



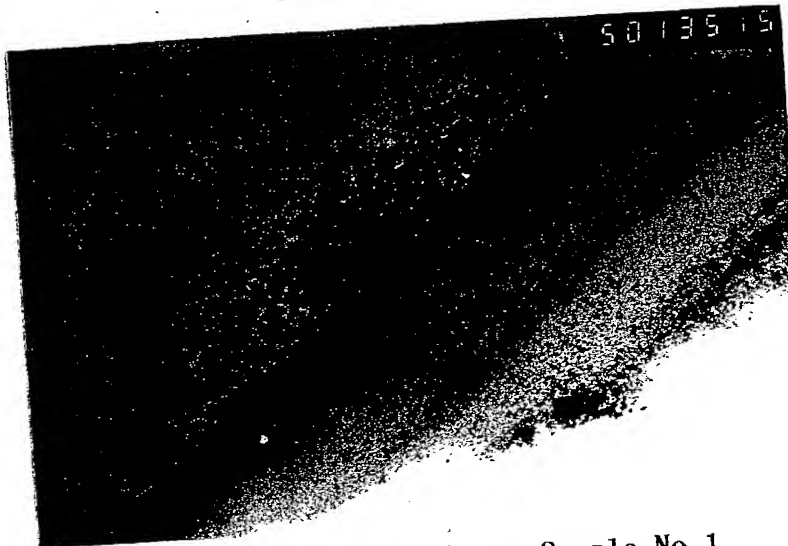
TEM Observation Result on Sample No. 1'  
(Bright Field Image)

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10/019283

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DOCKET # ~~215201~~ 215201 SHEET 8 OF 13

FIG. 10



TEM Observation Result on Sample No. 1  
(Bright Field Image)

FIG. 11



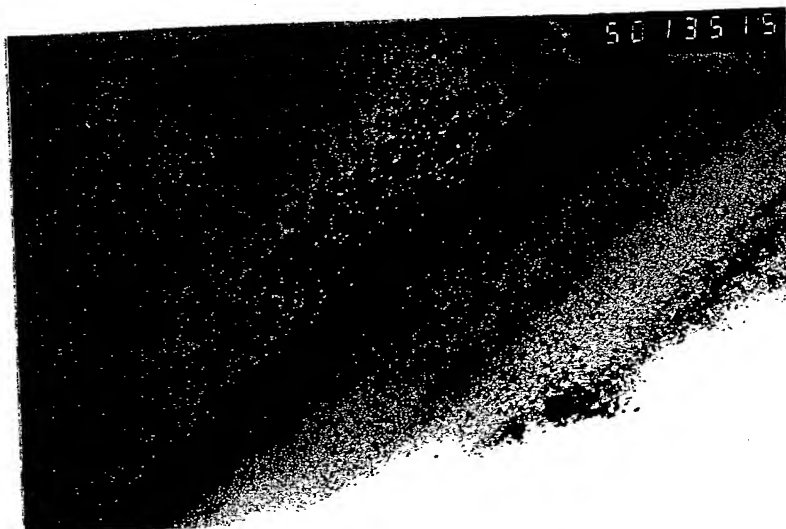
TEM Observation Result on Sample No. 1'  
(Bright Field Image)

202510 015001



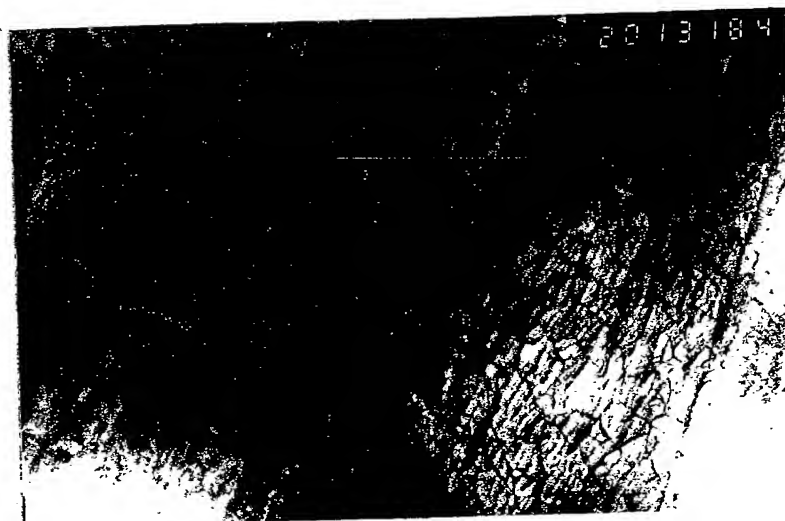
10/019283

FIG. 10



TEM Observation Result on Sample No.1  
(Bright Field Image)

FIG. 11



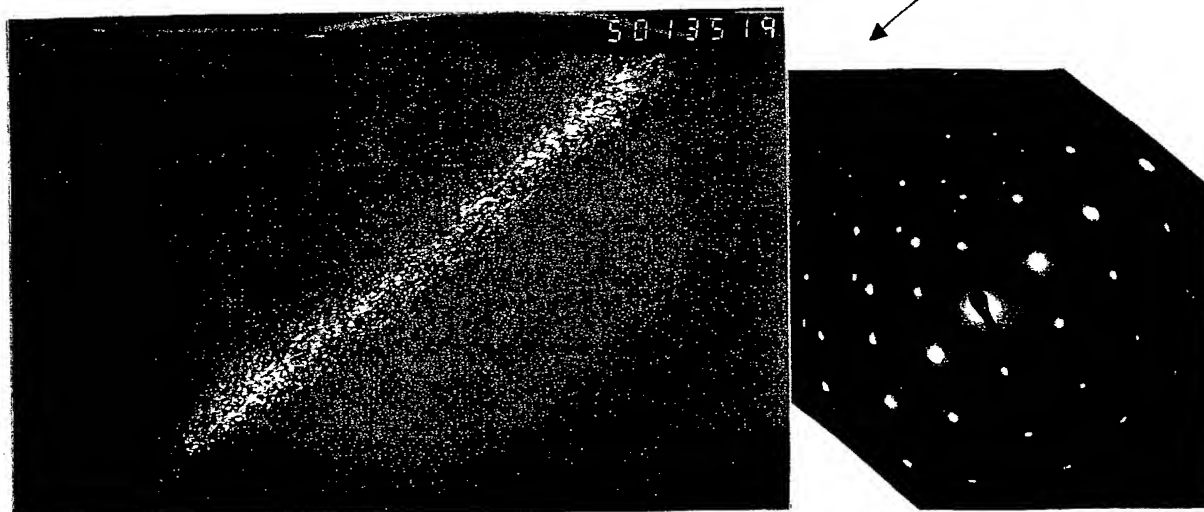
TEM Observation Result on Sample No.1'  
(Bright Field Image)

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FIG. 12

Rotary Center of Goniometer

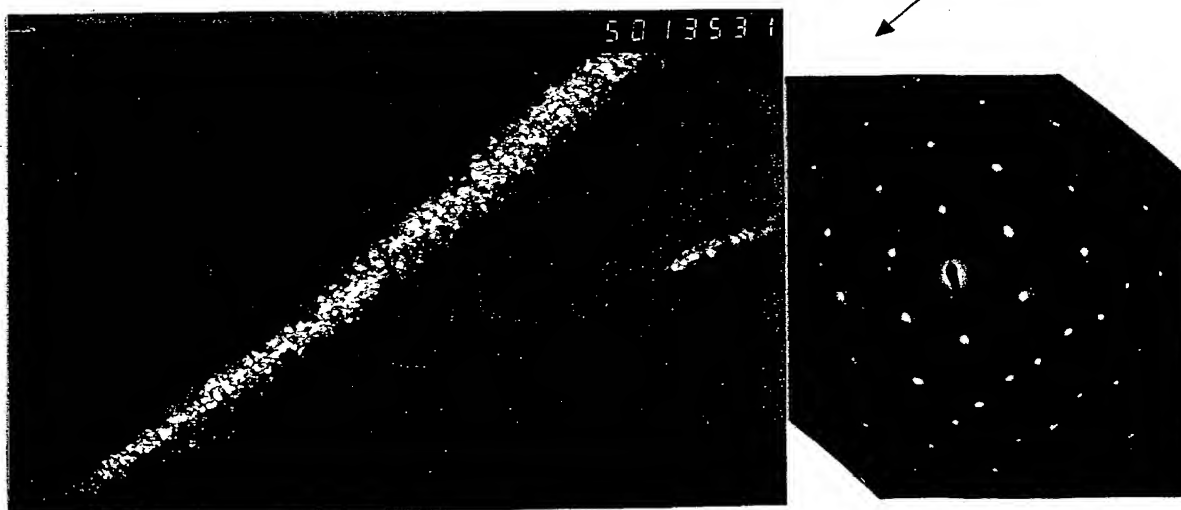


400nm

TEM Observation Result in Sample No.1  
Electron Diffraction Pattern and Dark Field  
Image Using 110 Diffraction Point  
Value read by goniometer was  $-16.3^\circ$ .

FIG. 13

Rotary Center of Goniometer

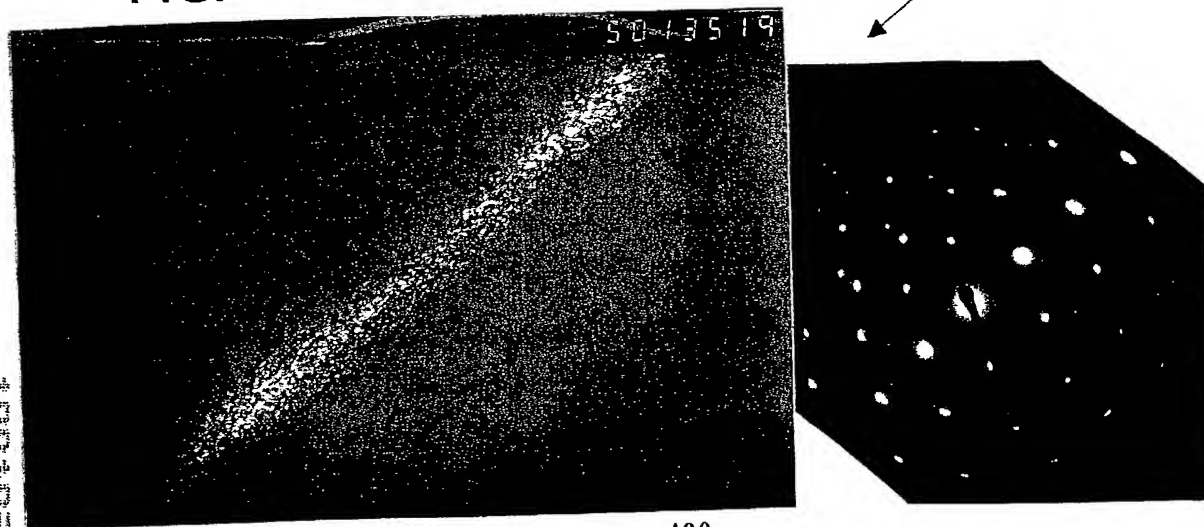


400nm

TEM Observation Result in Sample No.1  
Electron Diffraction Pattern and Dark Field  
Image Using 110 Diffraction Point  
Value read by goniometer was  $6.1^\circ$ .

FIG. 12

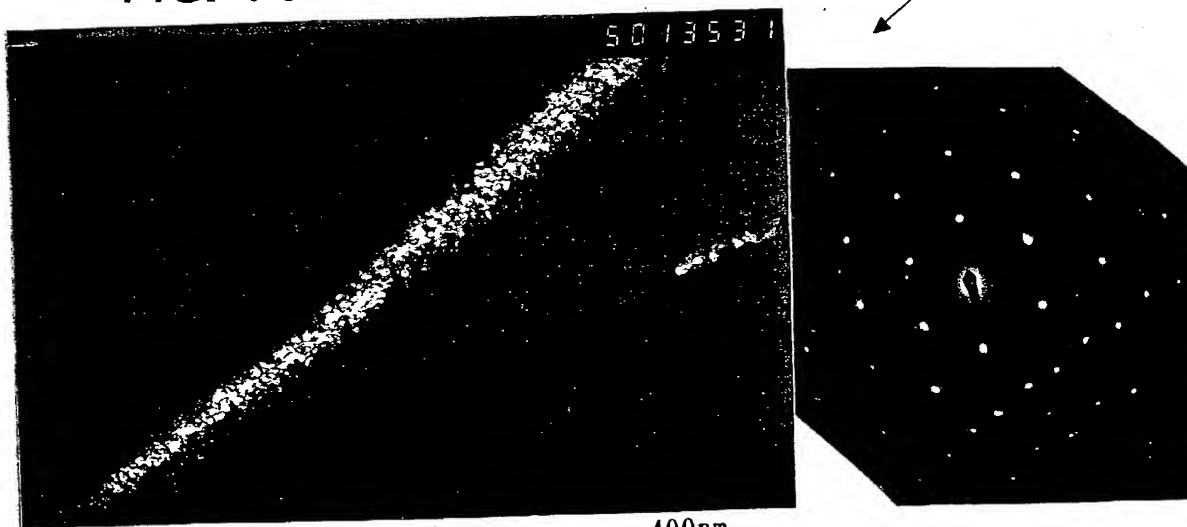
Rotary Center of Goniometer



TEM Observation Result in Sample No.1  
Electron Diffraction Pattern and Dark Field  
Image Using 110 Diffraction Point  
Value read by goniometer was  $-16.3^\circ$ .

FIG. 13

Rotary Center of Goniometer

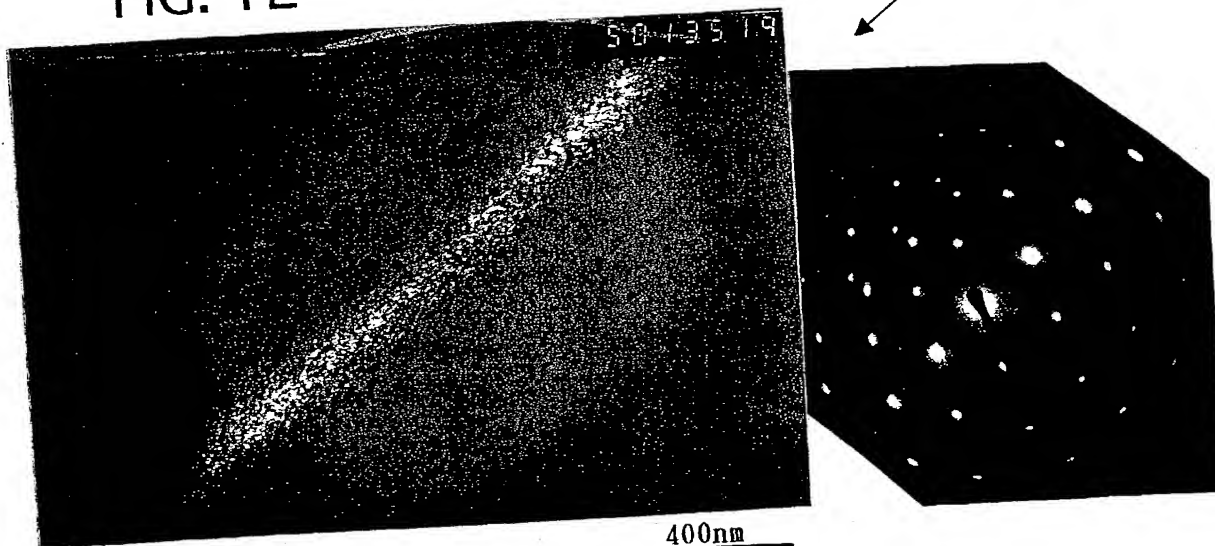


TEM Observation Result in Sample No.1  
Electron Diffraction Pattern and Dark Field  
Image Using 110 Diffraction Point  
Value read by goniometer was  $6.1^\circ$ .

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FIG. 12

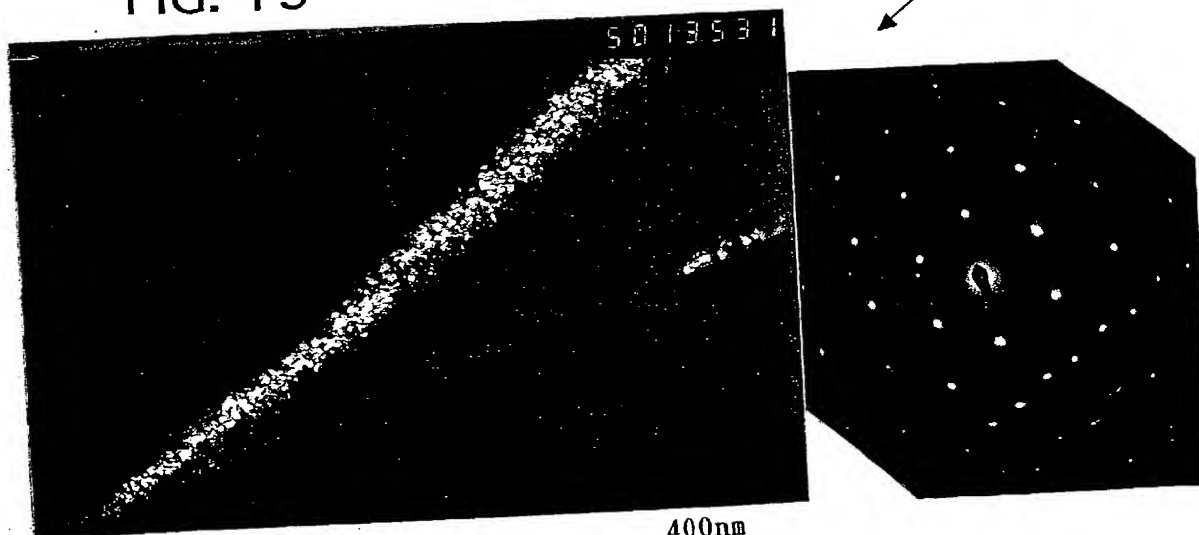
Rotary Center of Goniometer



TEM Observation Result in Sample No.1  
Electron Diffraction Pattern and Dark Field  
Image Using 110 Diffraction Point  
Value read by goniometer was  $-16.3^\circ$ .

FIG. 13

Rotary Center of Goniometer

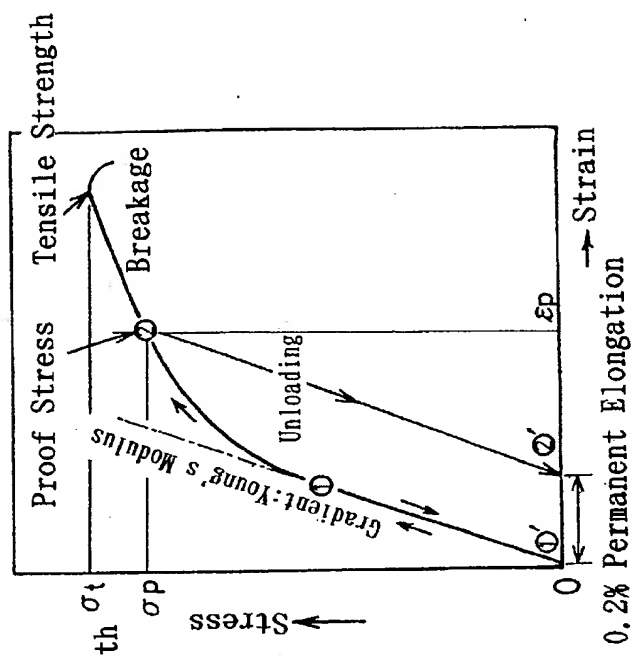


TEM Observation Result in Sample No.1  
Electron Diffraction Pattern and Dark Field  
Image Using 110 Diffraction Point  
Value read by goniometer was  $6.1^\circ$ .

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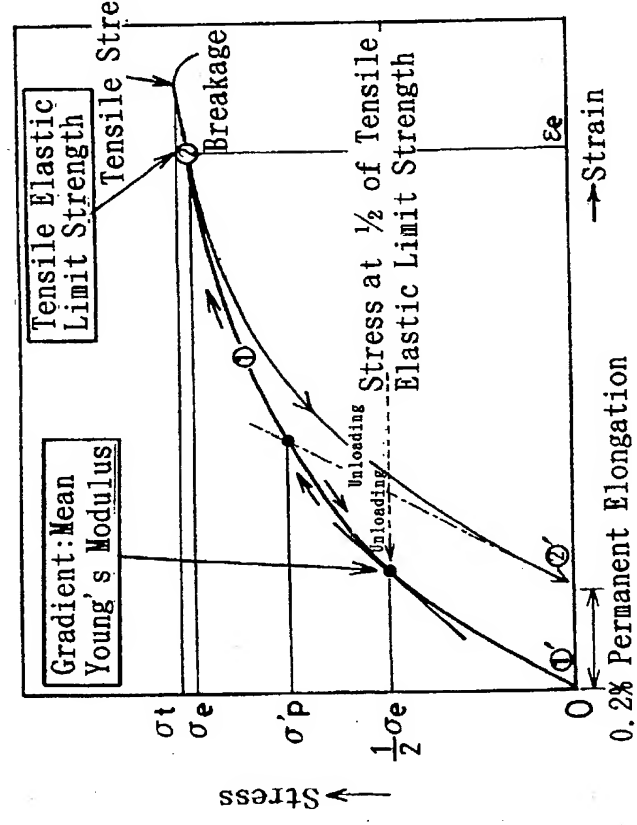
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FIG. 14B



Conventional Titanium Alloy

FIG. 14A



Titanium Alloy of Present Invention